

SINGER, Frantisek

Mucous plasmocytomas of the upper respiratory tract. Cas.lek.cesk  
100 no.10:295-300 10 Mr '61.

1. Otolaryngologicka klinika KU v Praze, prednosta akademik  
Antonin Precechtel.

(MYELOMA PLASMA CELL) (RESPIRATORY SYSTEM neopl)

SINGER, Gustav, MUDr.

Recurrent edema of the cornea caused by sand grain in the  
angle of the chamber. Cesk. ofth. 12 no.3:215-216 June 56.

1. Z očniho oddeleni UVN v Praze.

(CORNEA, diseases,

edema, caused by grain of sand (Cz))

(EDEMA,

cornea, caused by grain of sand (Cz))

CZECHOSLOVAKIA

SINGER, Gustav, MD, Col; Eye Department of Central Military Hospital (ocni oddeleni Ustredni vojenske nemocnice,) Prague.

"Correct Evaluation of Military Personnel Having Ocular Disabilities which may involve Decrease in Classification."

Prague, Vojenske zdravotnicke listy, Vol 32, No 1, Mar 63; pp 36-39.

Abstract : Seventeen eye diseases and defects are listed in tabular form with classifications and precautions necessary with regard to assigning soldiers having them to various types of duty in peacetime and wartime.

PANOIU, N.; CARABOGDAN, I.; SINGER, G.

Problem of the use of Rumanian lignite as fuel. Rev electrotechn  
energet 5 no.1:157-165 '60. (EEAI 10:4)  
(Rumania--Lignite)

CARABOGDAN, I.; PANOIU, N.; SINGER, G.

Criteria for the energetic appraisal of solid fuels. *Energetica*  
Rum 8 no.7:316-320 J1 '60.

PANOIU, N.; CARABOGDAN, I.; SINGER, G.; SCHWARTZ, M.; PETCU, M.

A 10 t/h lignite-burning boiler with inverted stoker grate. Energetica  
Rum 9 no.10:396-402 0 '61.

1. Institutul de energetica al Academiei R.P.R., Uzina de utilaj  
petrolier si chimic, Bucuresti.

(Steam boilers) (Lignite)

PANOIU, N.; CARABOGDAN, I.; SINGER, G.

Combustion of the lignites of Rumania in the grates with reverse thrust. Studii cerc energet B 12 no.2:143-161 '62.

PANOIU, N.; CARABOGDAN, I.; SINGER, G.

Grinding the lignite of the Schitu Golesti Basin in the installations for preparing the dust by means of ventilating mills.  
Studii cerc energet B 12 no.2:221-243 '62.



SOLACOLU, S.; DINESCU, R.; SINGER, G.; BALAN, V.

Viscosity of coal slags, effect of certain factors. Rev electro-  
techn energet 9 no.1:123-131 '64

1. Corresponding Member of the Rumanian Academy (for (Solacolu)

VLADYKOVA, J.; SINGER, G.

Harada's disease. Cesk. oftal. 20 no.5:369-374 S '64.

1. Oční oddelení UVN v Praze (vedoucí doc. dr. V. Jensi).

... ing. (Rumania); JINGHI, Georges, dipl. ing. (Rumania);  
... ion, dipl. ing. (Rumania); CRACIUNEANU, Constantin,  
dipl. ing. (Rumania); DIMARTI, Marty, dipl. ing. (Rumania)

State of development of low-quality coal-fired steam boilers.  
Ineri energia 5 no.3:61-70 M '64.

SINGER, G., ing.; PANOIU, N., ing.; CARABOGDAN, I., ing.

Studies on the behavior of the grate with reversed pressure.  
Energetica Rum 13 no.2:49-52 F '65.

1. Chief researcher, Section of Thermoelectric Power, Institute of Electric Power, Rumanian Academy (for Singer, Panoiu, Carabogdan). Submitted July 18, 1964.

L 35379-66

ACC NR: AP6026851

SOURCE CODE: CZ/0060/66/000/002/0080/0083

AUTHOR: Singer, G. (Colonel; Doctor of medicine)

ORG: Ophthalmological Department, Central Military Hospital /headed by Docent,  
Doctor Vaclav Jensi/, Prague (Oeni oddeleni Ustredni vojenske nemocnice)

TITLE: Hemeralopia in soldiers

SOURCE: Vojenske zdravotnicke listy, no. 2, 1966, 80-83

TOPIC TAGS: army medicine, ophthalmology

ABSTRACT: The author considers the registration adaptometer of Hartinger of Jena in East Germany as the best suited instrument for the evaluation of night blindness.<sup>22</sup> The author uses the word "hemeralopia" to describe night blindness. Checking the level of vitamin A can help in diagnosing the condition. The lower limit of light sensitivity for military service is the average between  $\log 10^{-4}$  and  $\log^{-5}$  as expressed by Hartinger and Birch - Hirschfeld. Findings made by the author on 14 patients are discussed. Orig. art. has: 2 figures. [JPRS: 36,834]

SUB CODE: 06 / SUBM DATE: none

Card

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UDC: 617.751.8: 356.33

2916 2606

ACC NR: AP6020962 (N) SOURCE CODE: UR/0226/66/000/006/0054/0067

AUTHOR: Sinel'nikova, V. S.

ORG: Institute of Material Study, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)

TITLE: The physical properties of aluminides of transition metals <sup>1</sup>

SOURCE: Poroshkovaya metallurgiya, no. 6, 1966, 64-67

TOPIC TAGS: transition metal, aluminide, ~~transition metal aluminide~~, sintered aluminide, ~~aluminide~~ electric property, ~~aluminide~~ microhardness, ~~aluminide~~ thermal conductivity, *metal physical property*

ABSTRACT: Certain electrophysical properties of sintered aluminides of transition metals ( $TiAl_3$ ,  $TiAl$ ,  $ZrAl_3$ ,  $HfAl_3$ ,  $VAAl_3$ ,  $NbAl_3$ ,  $TaAl_3$ ,  $Mo_3Al$ ,  $MoAl_2$ ,  $MoAl_3$ ) have been investigated. It was found that the thermal conductivity of aluminides at room temperature is lower than that of pure components. The values of the thermal emf and Hall constant of aluminides indicated that aluminides have predominantly electron or hole conductivity and that their thermal emf is basically the same as that of metals. Aluminides with a high aluminum content have a minimum resistivity. The microhardness of aluminides decreases and their thermal expansion coefficient increases with increasing

Card 1/2

L 3556-66  
ACC NR: AP6020962

aluminum content. The temperature dependence of the resistivity, especially in aluminum-rich aluminides, is linear but the resistivity of  $VAAl_3$ ,  $TaAl_3$ ,  $MoAl_2$ ,  $MoAl_3$ , and  $ReAl_2$  reaches a maximum at about 800C and then begins to drop. Generally, aluminides are characterized by a rather high Hall constant and by rather high resistivity and thermal emf. Orig. art. has: 4 figures and 1 table. [ND]

SUB CODE: 11/ SUBM DATE: 18Mar66/ ORIG REF: 007/ ATD PRESS: 5036

Card 2/2 116

MILITARY MEDICINE

CZECHOSLOVAKIA

UDC 617.751.8:356.33

SINGER, G.; Ophthalmological Department, Central Military Hospital (Očni Oddeleni Ustředni Vojenské Nemocnice), Prague, Head (Nacelnik) Docent Dr Vaclav JENSI.

"Hemeralopia in Soldiers."

Prague, Vojenske Zdravotnicke Listy, Vol 35, No 2, Apr 66, pp 80 - 83

Abstract: The author considers the registration adaptometer of Hartinger of Jena in East Germany as the best suited instrument for the evaluation of night blindness. [The author uses the word "hemeralopia" to describe night blindness.] Checking the level of vitamin A can help in diagnosing the condition. The lower limit of light sensitivity for military service is the average between  $\log 10^{-4}$  and  $\log^{-5}$  as expressed by Hartinger and Birch - Hirschfeld. Findings made by the author on 14 patients are discussed. 2 Figures, no references.

1/1



SINGER, G.N.

Improve the organization of the areas of raw products for beet-sugar  
factories. Sakh. prom. 35 no.2:53-54 F '61. (MIRA 14:3)

1. Mol'gipropishcheprom.  
(Moldavia--Sugar beets--Transportation)

SINGER I.

"Improvement of the quality of flannel" p. 143, (MAGYAR TEXTILTECHIKA, No. 5, May 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, L.C., Vol. 2, No. 11, Nov. 1953, Uncl.

Singer, Ivan.

"Teoreme De Medii Pentru Sisteme De Functii", by Ivan Singer.  
(presented at the 20 March 1953 session to Academiciin  
S. Stoilov). Academia Republicii Populare Romane: BULETIN  
STIINTIFIC, Tomul V, nr. 2, 1953.

LINGER, I.

"Sound wave strokes," Narodna Krila, Zagrad, Vol 6, No 5, July/Aug. (i.e. Sept./Oct.) 1953, p. 15.

SO: Eastern European Accessions List, Vol 3, No 11, Nov 1954, L.C.

Singer, Ivan.

"Despre Cea Mai Buna Aproximare a Functiilor Continue Prin  
Combinatii Liniare De Functii Date", by Ivan Singer.  
Academia Republicii Populare Romine: BULETIN STIINTIFIC,  
(presented at the 18 December 1953 session of academician  
S. Stoilov), Tomul VI, Nr. 3, 1954.

SINGER, I VAN

Singer, Ivan. Contributions à la théorie des lattices vectorielles normées (KB-linéaux). Acad. Repub. Pop. Romine. Stud. Cerc. Mat. 6, 79-134 (1955). (Romanian. Russian and French summaries)

The author considers vector lattices in which the norm is monotone; that is,  $|x| \leq y$  implies  $\|x\| \leq \|y\|$ . A set  $F$  of non-negative linear functionals of norm one on such a space  $E$  is called a normed positive-total (ptn) set if  $x \geq 0$  whenever  $f(x) \geq 0$  for all  $f$  in  $F$ . Observing that computations with  $F$  generalize the notion of "evaluation at a point" available in special function spaces, such as  $m$  or  $C$ , the author defines a quasiunit (unit) in  $E$  to be an element  $e$  of  $E$  such that  $f(e) = 1$  for each  $f$  in  $F$  (and also  $\|e\| = 1$ ). It is proved that  $e$  is a unit in  $E$  if and only if it is a unit in the sense of Kakutani [Ann. of Math. (2) 42, 523-537 (1941); MR 2, 318], and if and only if  $\|e\| = 1$  and every  $x$  within distance 1 of  $e$  is nonnegative, and if and only if  $f(e) = 1$  for every positive  $f$  of norm one in  $L^*$ . Then every  $E$  with a unit is an abstract  $M$ -space [Kakutani, ibid. 42, 994-1024 (1941); MR 3, 205], and the positive face of the unit sphere in  $L^*$  is the  $w^*$ -closed convex hull of  $F$ .

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(over)

Singer, Isaac

It is shown that  $\epsilon$  is a quasiunit if and only if

$\inf \{x \mid \|u-x\| \leq 1 \text{ implies } x \geq 0\}$

exists; then  $\epsilon$  is that inf. This shows that the quasiunit determined by a ptn  $F$  is independent of  $F$ , as long as the quasiunit exists for  $F$  at all. Several definitions of units are discussed. The last section applies some of the earlier discussion to normed rings.

M. M. Day (Urbana, Ill.).

2/2

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Singer, Ivan

Singer, Ivan. Propriétés de la surface de la sphère unitaire et applications à la résolution du problème de l'unicité du polynôme de meilleure approximation dans des espaces de Banach quelconques. Acad. R. P. Rouine. Stud. Cerc. Mat. 7 (1956), 95-145. (Romanian. Russian and French summaries)

L'auteur se propose d'étudier le problème suivant:

Soit  $E$  un espace de Banach,  $V \subseteq E$  un sous-espace de dimension  $m$  ( $1 \leq m < \infty$ ) et pour tout  $x \in E$  soit  $V(x)$  l'ensemble des  $y \in V$  tels que  $\|x - y\| = \inf_{z \in V} \|x - z\|$ . Trouver des conditions nécessaires et suffisantes ( $V$  étant fixé) pour que  $V(x)$  contienne un seul élément.

Pour ce faire, dans la première partie de l'article, il donne quelques propositions concernant la caractérisation des parties convexes maximales de la sphère  $\sigma = \{x \mid \|x\| = 1\}$  de  $E$  à l'aide des points extrémaux de la sphère  $\sigma' = \{x' \mid \|x'\| = 1\}$  du dual  $E'$ . Il donne ensuite plusieurs propositions (§ 3) sur les moyennes au sens de A. A. Markoff [Mat. Sb. N.S. 4(46) (1938), 165-191] (qui sont inexactes). Dans la seconde partie l'auteur cherche à résoudre le problème formulé plus haut et donne le théorème suivant, qu'il considère comme principal: Pour que  $V(x)$  contienne,



*Singer, Zvon*

quel que soit  $x \in E$ , un seul élément, il faut et il suffit que

$$\bigcap_{(j, 1 \leq j \leq m, c_j \neq 0)} \{x \mid f_j(x) = c_j / |c_j|, \|x\| = 1, \|x + y\| = 1\} = \emptyset$$

pour tout  $y \in V$ ,  $y \neq 0$ , tout ensemble  $\{f_1, \dots, f_m\}$  de points extrémaux de  $\sigma'$ , deux à deux non opposés et tout ensemble  $\{c_1, \dots, c_m\}$  de nombres réels tels que  $\sum_{j=1}^m c_j = 1$  et  $\sum_{j=1}^m c_j f_j(z) = 1$  pour  $z \in V$ . (Il est vrai que la condition est nécessaire. Mais la démonstration donnée par l'auteur pour montrer que la condition est suffisante est incorrecte; elle contient plusieurs inexactitudes et en particulier s'appuie sur les propositions du §3.)

*C. T. Ionescu Tulcea (Iacuresti).*

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SINGER, IVAN

LFW

✓ Singer, Ivan Sur la représentation concrète des espaces de Banach. Acad. R. P. Roum. Bul. Sti. Ser. Sti. Mat. Phys. 8 (1956), 31-37. (Romanian. Russian and French summaries)  
Soient  $E$  un espace de Banach,  $S$  la boule unité fermée du dual  $E'$  et  $A$  une partie de  $S$ . Pour tout  $x \in E$  soit  $f_x$  la fonction définie sur  $A$  par l'égalité  $f_x(a) = x(a)$ . Dans cette note l'auteur donne: 1) quelques résultats concernant la représentation  $x \rightarrow f_x$ ; 2) quelques résultats sur les relations entre la dimension de  $E$  et certains ensembles de points extrémaux de  $S$ . Les résultats donnés sont élémentaires et en partie connus. C. T. Ionescu Tulcea.

Singer

Concerning the Approximation of the Elements of Topological Spaces

Singer, Ivan. Sur l'approximation des éléments des espaces topologiques. Acad. R. P. Roum. Bul. Şti. Ser. Şti. Mat. Fiz. 8 (1956), 687-694. (Romanian. Russian and French summaries)

Let  $\mathfrak{M}$  be a family of proper closed subsets of a topological space  $E$  satisfying: (i) if the union of an increasing sequence of members of  $\mathfrak{M}$  is not dense in  $E$ , then its closure belongs to  $\mathfrak{M}$ , and (ii) for each  $x \notin M \in \mathfrak{M}$ , there exists a maximal member  $H$  of  $\mathfrak{M}$  such that  $x \notin H \supset M$ .

Then given an increasing sequence  $(M_n)$  in  $\mathfrak{M}$ , an element  $x$  belongs to the closure of their union unless there exists a maximal  $H \in \mathfrak{M}$  such that  $x \notin H \supset M_n$  for all  $n$ .

M. Jerison (Princeton, N.J.);

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1-FIW

SINGER, IVAN

✓ Singer, Ivan. Caractérisation des éléments de meilleure approximation dans un espace de Banach quelconque. Acta Sci. Math. Szeged 17 (1956), 181-189.

Some theorems about best approximations, including a generalization due to Remez of a Tchebycheff-Bernstein theorem, are deduced from the following result: An element  $q$  of a subspace  $G$  of a Banach space  $E$  minimizes the distance from  $G$  to a given  $x$  if and only if there exists a linear functional  $f$  of norm 1 that vanishes on  $G$  and such that  $f(x) = \|x - q\|$ . If  $G$  is  $n$ -dimensional, then  $f$  may be found as a convex combination of at most  $n+1$  extreme points of the unit ball in  $E^*$ .

M. Jerison.

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ENCL. 1.

on the optimum approximation of the abstract continuous functions with values in a Banach space. In French. p. 245.

REVUE DE MATHÉMATIQUES PURES ET APPLIQUÉES. JOURNAL OF PURE AND APPLIED MATHEMATICS. (Académie Republicii Populare Române) Bucaresti. Rumania. Vol. 2, 1957.

Monthly List of East European Accessions (EEAI) LC. Vol. 1, no. 1, January 1960.

Encl.

SINER, I.

Linear functionals in the continuous reflection space of the biocompact Hausdorff space in the Banach space. In Russian. p. 361.

REVUE DE MATHÉMATIQUES PURES ET APPLIQUÉES. JOURNAL OF PURE AND APPLIED MATHEMATICS. (Academi Republicii Populare Romine) Bucuresti. Rumania. Vol. 2, 1957.

Monthly List of West European Accessions (TEA) L. Vol. 9, no. 1, January 1960.

Uncl.

On the L-Problem of the Theory of Moments in a Banach Space

Singer, Ivan. Sur le L-problème de la théorie des moments dans les espaces de Banach. Acad. R. P. Roum. Bul. Şti. Sect. Şti. Mat. Fiz. 9 (1957), 19-28. (Romanian. Russian and French summaries)

Suppose that  $G$  is a linear subspace of a normed space  $E$  and that  $F$  is a continuous linear functional on  $G$  of norm one. By the Hahn-Banach theorem  $F$  admits an extension  $F$  to all of  $E$  such that  $F \in S^*$ , the unit sphere of  $E^*$ . The author proves that if  $G$  is  $n$ -dimensional, then  $F$  can be chosen to be a convex combination of  $k$  extreme points of  $S^*$ ,  $1 \leq k \leq n$ . This is applied to yield new proofs of known theorems due to the author and others.

R. R. Phelps (Princeton, N.J.),

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Abstract Angles and Trigonometric Functions in a Banach Space

3  
1-F/W

1/2 Singer, Ivan. Angles abstraits et fonctions trigonométriques dans les espaces de Banach. Acad. R. P. Roumâne.

Bul. Şti. Secţ. Şti. Mat. Fiz. 9 (1957), 29-42. (Romanian. Russian and French summaries)

For nonzero  $x$  and  $y$  in a Banach space  $E$ , the author defines  $\sin \frac{1}{2} \langle x, y \rangle = \frac{1}{2} \| (x/\|x\| - y/\|y\|) \|$ ,  $\cos \frac{1}{2} \langle x, y \rangle = \frac{1}{2} \| (x/\|x\| + y/\|y\|) \|$ , where  $\langle x, y \rangle$  is an "abstract angle". The sign of  $\cos \frac{1}{2} \langle x, y \rangle$  is ambiguous, being determined by the choice of a planar representation of the span of  $x$  and  $y$  (if  $E$  is the Euclidean plane, then  $\langle x, y \rangle$  is the smallest positive angle with  $x$  and  $y$  as initial and terminal sides). It follows from a theorem of M. M. Day [Trans. Amer. Math. Soc. 62 (1947), 320-337; MR 9, 192] that  $\sin^2 \frac{1}{2} \langle x, y \rangle + \cos^2 \frac{1}{2} \langle x, y \rangle = 1$  for all nonzero  $x$  and  $y$  if and only if  $E$  is a Hilbert space. The author defines  $x \perp y$  to mean  $|\tan \frac{1}{2} \langle x, y \rangle| = 1$ , i.e.,  $\| (x/\|x\| + y/\|y\|) \| = \| (x/\|x\| - y/\|y\|) \|$ . This is compared to the orthogonality ( $\|x + \lambda y\| = \|x - \lambda y\|$  for all  $\lambda$ ) of B. D. Roberts [Tôhoku, Math. J. 39 (1934), 42-59] and "isosceles orthogonality" ( $\|x + y\| = \|x - y\|$ ) of R. C. James [Duke Math. J. 12 (1945), 292-302; MR 6, 273]. For any linearly independent  $x$  and  $y$ , there is a number  $a$  for which  $x \perp ax + y$  (also true for "isosceles orthogonality"). If  $x \perp y$ , then  $ax \perp by$  for  $a$  and  $b$  not both zero (also true for Roberts' orthogonality).

R. C. James (Claremont, Calif.)

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Summary, 1.

A short proof of a theorem of E. Kelly. In English. p. 437.

REVUE DE LA VIE DES SCIENCES ET ARTS. JOURNAL DE L'ÉCOLE NATIONALE  
DES ARTS ET MÉTIERS. (Academia Republicii Populare Romane) Bucaresti, Romania.  
Vol. 3, no. 3, 1958.

Monthly List of East European Accessions (ELAE) LC, Vol. 3, no. 7, July 1959.

Incl.

SILGER, I.

The optimum interpolative approximation in Banach spaces. In French. p. 65.

REVUE DE MATHÉMATIQUES PURES ET APPLIQUÉES. JOURNAL OF PURE AND APPLIED  
MATHEMATICS. Bucuresti, Rumania. Vol. 4, no. 1, 1959.

Monthly List of East European Accessions. (EEAI), LC. Vol. 8, no. 9, <sup>Sept.</sup> 1959.  
Incl.

SINGER, Ivan

On the integral linear applications of the spaces of continuous functions. Rev math pures 4 no.3:391-401 '59.

(KEAI 10:9)

(Spaces, Generalized) (Topology)  
(Linear programming) (Integrals, Generalized)

SINGER, Ivan

On the set of the best approximations of an element in a normed  
linear space. Rev math pures 5 no.2:383-402 '60.

(KEAI 10:9)

(Spaces, Generalized) (Approximate computation)  
(Linear programing)

FOIAS, Ciprian; SINGER, Ivan

Some remarks on the representation of linear operators in spaces of  
vector-valued continuous functions. Rev math pures 5 no.3/4:729-752  
'60. (EEAI 10:5)

(Spaces, Generalized)

(Linear programming)

(Vector analysis)

(Functions)

SINGER, Ivan

Some remarks on best approximation in normed linear spaces. I. Rev  
math pures 6 no.2:357-362 '61.

SINGER, Ivan

Best approximation of continuous functions. II. Rev math pures 6  
no.3:507-511 '61.

SINGER, I. (Eucarest)

Data on the applications of linear integrals of apce of continuous  
functions of vectorial values. Acta mat Hung 11 no.1/2:3-13 '60.  
(EEAI 9:12)

1. Presente par B.Sz.-Nagy.

(Integrals)	(Spaces, Generalized)	(Functions)
(Vector analysis)	(Topology)	



SINGER, I.

G. Marinescu's Spatii vectoriale topologice si pseudotopologice (Topologic and Pseudotopologic Vectorial Spaces); a book review. Studii cerc mat 11 no.1:278-290 '60. (EEAI 10:9)

(Marinescu, George) (Vector analysis)  
(Spaces, Generalized) (Topology)

FOIAS, Ciprian; SINGER, Ivan

The strongly-linearly independent sequences and bases in Banach spaces. Rev math pures 6 no.3:589-594 '61.

SINGER, I. (Bucharest)

Weak bases in conjugate Banach spaces. Studia math 21 no.1:75-81 '61.

SINGER, I.

Some characterizations of symmetric bases in Banach spaces.  
Bul A- Pol mat 10 no.4:185-192 '62.

1. Institute of Mathematics, Rumanian Academy of Sciences,  
Bucharest. Presented by W.Orlicz.

SINGER, Ivan

On Banach spaces reflexive with respect to a linear subspace  
of their conjugate space. Pt. 3. Rev math pures 8 no.1:139-150 '63.

SINGER, Ivan

On bases in quasi-reflexive Banach spaces. Rev math pures  
8 no. 2:309-311 '63.

SINGER, I.

Weak bases in conjugate Banach spaces. Pt. 2. Rev math pures 8 no.4:575-584 '63.

SINGAR, Ivan

Bases in Banach spaces. Pt 1. Studii cerc mat 14 no.4:533-585 '63.



JINDBA, Ivan

some remarks on approximative compactness. For math. izv. 9 no.2:  
.62.11-154.

SINGER, Ivan

Studies in Banach spaces. Pt. 3. Studii cer: mat 16 no.6:675-725  
'64.

PELCZYNSKI, A.; SINGER, I.

On nonequivalent bases and conditional bases in Banach spaces.  
Studia math 25 no.1:5-25 '64.

1. Department of Mathematics of the Warsaw University (for Pelczynski). 2. Institute of Mathematics of the Rumanian Academy of Sciences (for Singer). Submitted January 16, 1964.

SINGER, Jan

Information on the process of bone fat extraction.  
Chem prum 12 no.9:478-484 S '62.

1. Glejona, n.p., Liptovsky Mikulas.

CZECH/34-594-9/18

AUTHORS: Singer, K., Ing. and Kejha, V. of the  
 TITLE: New Thermocouple Calibration Laboratory / Research Institute  
 for Ferrous Metallurgy (Nová cejchovní laboratoř termo-  
 článků Výzkumného ústavu hutnictví železa)  
 PERIODICAL: Hutnické Listy, 1959, Nr 4, pp 320 - 322  
 (Czechoslovakia)

ABSTRACT: This laboratory was created for satisfying internal requirements as well as requirements of the metallurgical works in Czechoslovakia. It has been in existence since the autumn of 1957. In this laboratory calibration is effected by comparing the thermocouple to be calibrated with a standard of the same type. In this article, a brief description is given of the laboratory and the equipment fitted in it. Figure 1 shows the block schematics of the circuit used for calibrating thermocouples. In Figure 4, the temperature distribution in the calibration furnace is graphed. By means of the installed equipment, Fe-Co, NiCr-Ni, PtRh Pt thermocouples with diameters up to 2.5 mm, minimum lengths of 60 mm, can be calibrated for temperatures up to 1 200 °C with an accuracy of  $\pm 1$  °C, compared with the respective value of the standard. ✓

Card1/2

CZECH/34-59-4-9/18

New Thermocouple Calibration Laboratory. Research Institute for  
Ferrous Metallurgy

It is proposed to extend in this laboratory the calibration  
of thermocouples up to 1 400 and possibly up to 1 600 °C.  
In accordance with the standard specification CSN 35 6710  
for thermocouples, the author uses the definition  
"measuring end" instead of "hot joint" and "comparison  
end" instead of "cold joint". There are 4 figures.

ASSOCIATION: VÚHŽ, Prague ✓

Card2/2

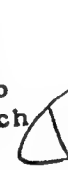
Z/032/60/010/04/016/035  
E073/E335

AUTHORS: Wiesner, F., Candidate of Technical Sciences, Engineer  
and Singer, K., Engineer

TITLE: Rolling of Thin Foils in the Ferrous-metallurgy Research Institute

PERIODICAL: Strojirenství, 1960, Vol 10, Nr 4, pp 300 - 302

ABSTRACT: Up to now, equipment available in Czechoslovakia has not permitted production of steel or hard-alloy foils of thicknesses below 0.05 mm and these had to be imported. The Ferrous-metallurgy Research Institute has designed a 14-roll rolling mill for rolling very thin sheet and this was built last year. Figures 1 and 3 show a photo of this equipment. Figure 2 shows a diagrammatic sketch of the arrangement of the rolls. Figure 4 shows the circuit diagram of the electric drive. The table on p 302 shows the results obtained during tests with this rolling mill; hitherto, transformer sheets with 3% Si were reduced from 0.32 mm to 0.05 mm in 12-15 passes with one intermediate annealing; in this new rolling mill the same sheet was reduced in 6 or maximum 7 passes with



Card1/2

SINGER

... of myocardial infarction in a 21-year-old athlete. Pol. tyg.  
... 1963/4-362 2 Xr '64.

... Kardiologicznego Szpitala Specjalistycznego w Katowic-  
... (autor: dr. med. Bronisław Karolczak).



GOTTMANN, M., prof. inž. Stroj., SINGER, E., inž.

High-speed heating and the thermal balance of a furnace  
with radiating burners. Sbor VSB Ostrava 9 no.5:625-635  
'63.

1. Higher School of Mining, Ostrava. Submitted March 10, 1963.

SINGER, L. (Bucharest)

Basic sequences and reflexivity of Banach spaces. Studia math 21  
no.3:351-369 '62.

NEPIL, Jiri, MUDr; SINGER, Lubor, MUDr

Contribution to the therapy of otomastoiditis in infants. Prakt.  
lek., Praha 34 no.24:552-555 20 Dec 54.

1. Z detskeho oddeleni OUNZ v Lounech  
(MASTOIDITIS, in infant and child  
otomastoiditis)  
(OTITIS MEDIA, in infant and child  
otomastoiditis)

SCIENCE

TECHNOLOGY

Periodical: REVUE DE LA TECHNIQUE No. 1, 1950.

CIEMA, M. Static electricity as a source of accidents in industrial production. p. 12

Monthly List of East European Accession (EEAI) LC, Vol. 6, no. 3  
March 1959 Unclass.

RUMANIA / Chemical Technology. Chemical Products and H-25  
Their Application. Fats and Oils. Waxes.  
Soaps. Detergents. Flotation Agents.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 2628.

Author : Singer, M.

Inst : ~~Not given.~~

Title : The Use of Citric Acid in the Process of Refining  
Vegetable Oils.

Orig Pub: Rev. ind. aliment. prod. vegetale, 1956, No 10,  
16-17.

Abstract: A discussion is given on the part played by cit-  
ric acid in preparations used for increasing the  
stability of vegetable oils, as well as the re-  
sults from experiments conducted at the Moscow  
margarine plant concerning a study on the action

Card 1/2

510045, m.  
RUMANIA/Chemical Technology - Chemical Products and Their  
Application. Part 1, -Corrosion, Protection from  
Corrosion.

H-4

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 21809

Author : M. Singer.

Inst :

Title : Corrosive Action of Alkalies on Various Metals.

Orig Pub : Rev. ind. aliment. prod. vegetale, 1957, No 5, 14-15

Abstract : The corrosion resistivity of Fe, cast iron, steel, bronze, brass, Pb, Sn, Zn, graphite, Rubber, plastics and china under the action of  $\text{Na}_2\text{CO}_3$ , NaOH and KOH solutions of various concentrations and at various temperatures is discussed. General recommendations concerning the use of construction materials in contact with alkaline solutions are presented.

Card 1/1

APPROVED FOR RELEASE: 08/23/2000

RUMANIA/Chemical Technology - Chemical Products  
and Their Applications. Fats and  
Waxes. Soaps and Detergents. Flotation  
Agents.

H

CIA-RDP86-00513R001550730009-1"

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 21131

Author : Singer, M.

Inst :

Title : Hydrogenation of Nutritive Vegetable Oils.

Orig Pub : Rev. ind. aliment. prod. vegetale, 1958,  
No 1, 12-13

Abstract : Structural changes of vegetable oils during hydrogenation are discussed, as are the accompanying side reactions with the formation of products which are harmful to the organism at a temperature of more than  $170^\circ$ . It

Card : 1/2

Category : Chemical Technology. Fats and Oils. Soaps and Detergents. Flotation Agents.  
 Abs. Jour : Ref Zhur-Khimiya, No 16, 1959, No 51275  
 Author : Singer, V.  
 Institute :  
 Title : Manufacture of Light Soap from Raw Cottonseed Oil  
 Orig Pub. : Rev. ind. aliment. prod. vegetale, 1958, No 3, 4-6  
 Abstract : Short description of physical and chemical methods leading to bleaching cottonseed oil and of soap derived therefrom. Bleaching is based on the destruction of gossypol by means of its oxidation with Na or Ca hypochlorite sodium peroxide, perhydrol, and hydrogenation. Discussed also is the breakdown of oil with the subsequent distillation (210-220°/3-4 mm) of fatty acids. A flow diagram depicting  
 Card: 1/2

H-126

Country :  
 Category : Chemical Technology.  
 Abs. Jour : Ref Zhur-Khimiya, No 16, 1959, No 51275  
 Author :  
 Institute :  
 Title :  
 Orig Pub. :  
 Abstract : Bleaching of fatty acids derived from cottonseed oil employed at the Gor'kiy (USSR) fatty combine is presented.  
 Con'd

Card: 2/2

H25

STATICESCU, P. ing.; OLTEANU, Gh., dr.; MATEI, A., ing.; MUNTEANU, E.  
ing.; LUTSCH, M., ing.; POPA, I., ing.; RACZ, Z., ing.;  
COSMA, I., ing.; LENGYEL, V., ing.; LUNGU, C., ing.;  
SINGER, M., ing.; CRETU, I., ing.; GRIGORAS, m., ing.;  
CRACIUNESCU, C., ing.; COLIS, I., ing.; BACOS, M., ing.;  
ALEXANDRESCU, T., ing.; BERZOVAN, I., ing.; TOARNICZSKI, E., ing.;  
OCHIANA, S., ing.; MOCANU, E., ing.

Results obtained with different varieties in sugar-beet  
growing. Ind alim 14 no.9:342-348 S'63.

1. Fabrica de zahar Giurgiu (for Matei, Munteanu).
2. Fabrica de zahar Bod (for Lutsch, Popa).
3. Fabrica de zahar Tg. Mures (for Racz, Cosma, Lengyel).
4. Fabrica de zahar Roman (for Lungu, Singer).
5. Fabrica de zahar Bucecea (for Cretu, Grigoras).
6. Fabrica de zahar Oltenia (for Craciunescu, Colis).
7. Fabrica de zahar Banat (for Bacos).
8. Fabrica de zahar Arad (for Alexandrescu, Berzovan).
9. Fabrica de zahar Ludus (for Toarniczski, Ochiana).
10. Fabrica de zahar Sascut (for Mocanu).



SINGE, Maks Emmanuilovich

SINGE, Maks, Emmanuilovich and D. Fibikh.....Progulki po Moskve; ocherki.  
(Moskva), Rabochaia Moskva, 1923. 46 p. DLC: DK601.S56

SO: LC, Soviet Geography, Part II, 1951/Unclassified

STOYKO, MIKHAIL KONSTANTINOVICH.

Vozdushnye kerabli. Moskva, Molodaya gvardiia, 1932. 187 p.,  
plates, fold. map.

Title tr.: Aircraft.

PL526.S985

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of  
Congress, 1955.

K: . . .  
STIGER, MARK SPANWILL VICH.

Sipriund Levanevskii, geroi Sovetskogo soiuza. Leningrad, Izd-vo  
Mavsevmorputi, 1939. 152 p., plates, ports, map.

Title tr.: Sipriund Levanevskii, Hero of the Soviet Union.

TL540. D335

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of  
Congress, 1955.

С. И. ЛЕВ, Л. А. С. ЛЕВ, Л. А. С. ЛЕВ.

В битве за Север. [The fight for the North]. Москва, Изд-во, Главсевморпути, 1940.  
321 p. JIC: 140.311

SC: Soviet Transportation and Communications, A Bibliography, Library of Congress,  
Reference Department, Washington, 1952, Unclassified.

SINGER, Maks Mmmannuilovich

[Far to the north] Daleko na severe. Moskva, Detgiz, 1955. 93 p.  
(Arctic regions) (MLRA 9:10)

For Applied Mycology SINGER, F. A.

v. 32 Dec 1953

✓ SINGER (R. A.). Home oenoma d. in classification *Panus* u. p. g. r. e. n. n. a. x. p. o. g. e. n.  
[A new basis for the classification of *Panus* and related genera.] *Acta Inst.  
bot. Acad. Sci. U.R.S.S. (Pl. crypt.)*, Ser. II, 1950, 6, pp. 375-387, 1950.

The author gives reasons for classifying the genus *Panus* into four genera:  
*Pandellus*, *Panus*, *Tectella*, and *Phyllotopsis*. Descriptions are given of some of the

species occurring in the U.S.S.R. [*R.L.M.*, 14, p. 270] and also of *Schizophyllum  
commune*. He considers that placing *Leontinus* and *Panus* near *Marasmius* is  
artificial and not at all justified. *Phenotus* is more closely related to *Panus*.



SINGER, Zlatko, ing.

Corrosion of pipelines and their protection. Nafta Jug 12  
no.3/4:92-97 Mr. Ap '61.

1. Naftalin, Zagreb.



SINGER, Zlatko, ing.

Principles of gas lifting. Nafta Jug 12 no.9:228-251 S '61.

1. Naftaplin, Zagreb.

SINGER, Zbigniew

Cancer of stomach in a patient with macrocytic anemia diagnosed by cytologic examination of stomach contents. Polski tygod.lek. 10 no.9: 272-275 28 Feb 55.

1. Z I Kliniki Chorob Wewnętrznych Śląskiej Akademii Medycznej;  
kierownik: prof. dr J.Japa. Stalinogrod, ul. Gliwicka 2 m. 7.

(STOMACH, neoplasms,  
with anemia hyperchronic, diag., cytol. of stomach con-  
tents)

(ANEMIA, HYPERCHROMIC, complications,  
stomach cancer, diag., cytol. of stomach contents)

SINGER, Zbigniew

A new method of counting cell divisions in the bone marrow. Polski tygod.lek. 10 no.12:380-382 21 Mar 55.

1. Z I Kliniki Chorob Wewnętrznych Śląskiej Akademii Medycznej:  
kierownik: prof. dr Jozef Japa. Stalinogrod, ul. Olivicka 2/7.

(BONE MARROW,

mitosis, method of counting cell divisions)

(CELL DIVISION,

mitosis in bone marrow, method of counting)

SINGER, Zbigniew

Quantitative determination of heparin precipitable serum proteins  
in low temperatures (HPT). Polski tygod. lek. 14 no.36:1641-1645  
7 Sept 59.

1. (Z I Kliniki Chorob Wewnętrznych Sl. A. M.: kierownik: prof. dr  
Jozef Japa).

((BLOOD PROTEINS, chem.) (HEPARIN)

WOLANSKI, Adam; SINGER, Zbigniew; BOBER, Antoni

A case of generalized tuberculosis during the course of chronic granulocytopenia. Polski tygod.lek. 15 no.38:1455-1457 19 S '60.

1. Z I Kliniki Chorob Wewnętrznych Sl. A.M.; kierownik: prof.  
dr Jozef Japa i z Zakładu Anatomii Patologicznej Sl. A.M.;  
kierownik: prof. dr Witold Niepolomski.  
(AGRANULOCYTOSIS compl)  
(TUBERCULOSIS MILIARY compl)

SINGER, Zbigniew; WOLANSKI, Adam

Determination of cold heparin precipitable fractions of serum proteins in myocardial infarct and coronary disease. Polski tygod. lek. 15 no.46:1766-1768 14 N '60.

1. Z I Kliniki Chorob Wewnetrznych Sl. A.M.; kierownik: prof. dr Jozef Japa.

(MYOCARDIAL INFARCT blood) (CORONARY DISEASE blood)  
(BLOOD PROTEINS) (HEPARIN pharmacol)

SINGER, Zbigniew

Further studies on heparin precipitable fractions in low temperatures. Behavior of the HPF in diseases of the hemopoietic organs. Polski tygod. lek. 15 no.48:1833-1836 28 N '60.

1. Z I Kliniki Chorob Wewnętrznych Sl. A.M. w Zabrze; kierownik: prof. dr Józef Japa.

(BLOOD PROTEINS) (HEPARIN pharmacol)  
(BLOOD DISEASES) (LEUKEMIA blood)  
(HODGKIN'S DISEASE blood)

SINGER, Zbigniew; MASNY, Natalia; KARDASZEWICZ, Ewa

Activity of lactic acid dehydrogenase in sera of patients with leukemia and other hematological diseases. Pol. tyg. lek. 17 no.4:121-124 22 Ja '62.

1. Z I Kliniki Chorob Wewnetrznych Sl. AM w Zabrze; kierownik: prof. dr Jozef Japa.

(DEHYDROGENASES blood) (LEUKEMIA blood)  
(BLOOD DISEASES)



SINGER, Zbigniew; MASNY, Natalia; MADEJSKI, Tadeusz

Activity of serum lactic dehydrogenase (SLD) in cancer patients before and after surgery. Pol. tyg. lek. 17 no.34:1329-1333 20 Ag '62.

1. Z I Kliniki Chorob Wewnętrznych; kierownik: prof. dr J. Japa  
i z II Kliniki Chirurgicznej Śląskiej AM kierownik: prof. dr  
J. Gasinski.

(LACTATE DEHYDROGENASE) (NEOPLASMS) (ENZYME TESTS)

KARDASZEWICZ, Ewa; MASNY, Natalia; SINGER, Zbigniew

Lactic acid dehydrogenase in the light of clinical studies. Pol. arch.  
med. wewnet. 32 no.1:31-36 '62.

1. Z I Kliniki Chorob Wewnetrznych Slaskiej AM Kierownik: prof. dr.  
med. J. Japa.

(LACTIC DEHYDROGENASE blood)

SINGER, Zbigniew; KOWALSKI, Stefan; MACHALSKI, Marek

Mucoviscidosis in an internal disease clinic. Pol. arch. med.  
wewn. 33 no.8:917-925 '63.

1. Z I Kliniki Chor. Wewn. Sl. AM w Katowicach Hierownik:  
prof. dr med. J. Japa.

(PANCREATIC CYSTIC FIBROSIS) (SWEAT)  
(SODIUM CHLORIDE) (PHOTOMETRY)



SINGER, Zlatko, inz.

Quantity of gas measured on the basis of mass measurements.  
Nafta Jug 14 no.1:1-4 Ja '63.

1. Naftaplin, Zagreb.

SINGHORAAN, Ion Corvin

Visual and photographic positions of the earth's artificial  
satellites. Studi astron 9 no. 1:89-92 '64.

POPOVICI, Calin; CINSMARU, Magdalena; MINESCU, Alexandru; SINGHOREAN,  
Ion Corvin

Visual observations of the earth's artificial satellites carried  
out at Station 1131 of the Astronomical Observatory in Bucharest  
during the period January 1-December 31, 1963. Studiul astron  
o no, 1:131-111 '64.

L 11077-65 EWT(m)/EWP(t)/EWP(b) IJP(c)/RAEM(a)/AFWL/SSD/ESD(s)/ESD(ga)/  
ESD(t) JD S/0181/64/006/010/3186/3188  
ACCESSION NR: AP4046652

AUTHORS: Abagyan, S. A.; Subashiyev, V. K.; Singkhal, S. P.

TITLE: On the nature of the maxima of ultraviolet reflection in  
GaP and  $\text{GaAs}_x\text{P}_{1-x}$  (b)

SOURCE: Fizika tverdogo tela, v. 6, no. 10, 1964, 3136-3188

TOPIC TAGS: gallium arsenide, phosphide, gallium phosphide, gallium arsenide, ultraviolet reflection, reflection coefficient

ABSTRACT: To trace the variations of the position of the maximum of ultraviolet reflection in GaP and  $\text{GaAs}_x\text{P}_{1-x}$  with variation of the composition, measurements were made of the reflection spectrum in crystals of GaP, GaAs and some crystals  $\text{GaAs}_x\text{P}_{1-x}$ . The square of the reflection coefficient was measured by a "samples in and out" procedure, in which the intensity of the light reflected from two

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ACCESSION NR: AP4046652

approximately parallel samples was compared with the intensity of the incident radiation. The monochromator was the optical part of the SF-4 spectrophotometer with a hydrogen lamp. The receiver was an FEU-29 or FEU-36 photomultiplier. The regions of the first and second maximum of the ultraviolet reflection were investigated. The composition of the crystals was determined from the lattice parameter. The results for GaP and GaAs agreed with the published data (J. C. Philips, Phys. Rev. v. 133, 2A, A452, 1964). Comparison of the slopes of the plots of the positions of the reflection maxima vs. composition with the slopes of the corresponding curves for the minima it is concluded that the first maximum of reflection in GaP and in the mixed-composition crystals is connected with electron transitions at points in the band structure lying in the  $\langle 111 \rangle$  directions, while the second is connected with transitions of electrons in the minimum of (100). Orig. art. has: 1 figure.

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad (Institute

Card 2/3

L 11077-65

ACCESSION NR: AP4046652

of Semiconductors AN SSSR)

SUBMITTED: 01Jun64

ENCL: 00

SUB CODE: OP, SS

NR REF SOV: 003

OTHER: 003

Card 3/3

GUJATI, B.S.: 1964, ...

Germination of the seeds of Rauwolfia serpentina Benth. Biol.  
Glav. bot. sada no.56:36-38 '64. (MIRA 18:5)

1. Severnyy zonal'nyy tsentr Tsentral'nogo indiysskogo instituta  
lekarstvennykh rasteniy, Khaldvani, Indiya.

; SINGLIAR, M.

Category: Czechoslovakia/Analytical Chemistry - Analysis of inorganic G-2 substances.

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 31042

Author : Singliar Michal, Zubak Jan

Inst : not given

Title : Determination of Traces of Moisture in Gases

Orig Pub: Chem. prumysl, 1956, 6, No 10, 426-427

Abstract: Study of the conditions of determination of traces of moisture in gases by the method of Roth (Roth F., Brennsstoffchemie, 1941, 22, 77) with the use of Mg nitride, which is prepared by heating Mg in a current of  $N_2$  at  $700-800^\circ$ , and is kept in reaction tubes (diameter 1 cm, length 4 cm, depth of Mg nitride layer 2 cm), drawn out at the tips to a diameter of 0.4 cm. The gas under study (1-1.5 liters) is passed through the tube at a rate of 90-110 ml/minute, and then (900-1000 ml) through an a washing bottle containing the absorber ( $NH_3$ ) solution (40 ml 0.001 N HCl). Thereafter there are added to the absorber solution 1 ml of

Card : 1/2

*Res. Inst Acetyl<sup>-53-</sup> Chem, Novak, Czech*

SINGLIAR, M.

CZECHOSLOVAKIA/Analytical Chemistry - Analysis of  
Inorganic Substances.

E-2

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 24760

Author : Singliar, M., Kapisinska, V.

Inst : -  
Title : Determination of Mercury in Catalysts Used in the Produc-  
tion of Vinyl Chloride.

Orig Pub : Chem. zvesti, 1957, 11, No 7, 411-417

Abstract : It was found that aqua regia extracts from activated char-  
coal (AC) 70.9-97.0%  $HgCl_2$ , and a subsequent extraction,  
once or twice, with 30%  $H_2O_2$  permits a quantitative removal  
of  $HgCl_2$  from AC. In the determination of Hg in AC,  
2.5-3 g of comminuted sample are boiled, in an Erlenmeyer  
flask fitted with a reflux condenser, with 30 ml aqua regia  
until evolution of oxides of N ceases (about 2 hours);  
then 5 ml 30%  $H_2O_2$  are added and boiling is continued for  
1 hour. The condenser is flushed with water and the

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CZECHOSLOVAKIA/Analytical Chemistry - Analysis of  
Inorganic Substances.

E-2

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 24760

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001550730009-1"

solution containing the charcoal is filtered through a  
white-label paper. The charcoal on the filter is washed  
with water (250 ml) and the Hg is precipitated from the  
filtrate in the form of  $HgS$ . The precipitate is dissolved  
in a solution of  $Na_2S$ , the S is filtered off and the fil-  
trate is boiled with an excess of  $NH_4NO_3$  solution until all  
the  $HgS$  is precipitated. The  $HgS$  precipitate is filtered  
off through a G4 crucible, washed, dried at  $100^\circ$  and  
weighed. Relative error of determination is of about 5%.  
On extraction with 5%  $HNO_3$  or acetone  $HNO_3$ , only 88 or  
85% of  $HgCl_2$ , respectively, are extracted from the AC.

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PHASE I BOOK EXPLOITATION

CZECH/5523

Šingliar, Michal, Engineer

Plynova chromatografia v praxi (Gas Chromatography in Practice) Bratislava, Slovenské vydavateľ'stvo technickej literatúry, 1961. 215 p. (Series: Edícia chemickej literatúry) 1,200 copies printed.

Reviewers: Jaroslav Franc, Engineer, and Karel Otto, Engineer; Ed.: Jozef Mjartan; Chief Eds.: Pavol Holéczy, Engineer, and Jozef Mjartan; Tech. Ed.: Leodegar Horváth.

PURPOSE: This handbook is intended for technical personnel in the chemical industry.

COVERAGE: The book serves both as an introduction to chromatography and as a guide for those interested in a deeper study of the subject. Current laboratory practice is presented. No personalities are mentioned. References accompany each chapter.

Card 1/8-

SINGCIAR, Michal, inz.; BRIDA, Jan, SPISSKY, Valent

Some problems of analyzing the products of oxyacetylene. Chem  
vesti 18 no.7:527-532 '64. Chem zvesti 18 no.7:527-532 '64.

1. Research Institute of Petrochemistry, Novaky.

L 9934-66 EWT(m)/EWP(j) JW/RM

ACC NR: AP6003385

SOURCE CODE: CZ/0043/65/060/007/0559/0569

AUTHOR: Singliar, Michal—Shingliar, M. (Engineer); Volek, Imrich (Engineer);  
Sestrienkova, Marta—Sestriyenkova, M. (Engineer)

ORG: Petrochemical Research Institute, Novaky (Vyskumny ustav pre petrochemiu)

TITLE: Identification of alcohols found in an octanol fraction, prepared by aldolization of crotonaldehyde

SOURCE: Chemické Zvesti, no. 7, 1965, 559-569

TOPIC TAGS: alcohol, quantitative analysis, aldehyde, gas chromatography, ir spectroscopy, hydrogenation

ABSTRACT: The alcohols investigated had a chain of 4 to 8 carbons. The identification of individual fractions was made by means of chemical analysis, gas chromatography, infrared spectroscopy, and by hydrogenation. A table showing elution periods for various aromatic chain alcohols and acid was prepared. The study was undertaken to determine if it was possible to prepare linear chain alcohols by crotonaldehyde condensation, and by hydrogenation of the resulting aldols. The reaction mixture was separated into individual fractions in a rectification column before the analysis was made. It was found by means of gas chromatography that the fraction C sub 8 - C sub 12 had many components. The conditions for favoring the straight chain alcohols production are discussed. Orig. art. has: 6 figures and 4 tables. [JPRS]

SUB CODE: 07 / SUBM DATE: 27Feb65 / ORIG REF: 003 / OTH REF: 041 / SOV REF: 004  
Card 1/1



CZECHOSLOVAKIA

SINGLIAR, M; DYKYJ, J; REPAS, M; LUKACOVIC, L

Research Institute for Petrochemistry, Novaky - (for all)

Prague, Collection of Czechoslovak Chemical Communications,  
pp 233-242

"Analysis and identification of propylene dimers by gas-liquid  
chromatography."

SINAI, Anna (Velikobritaniya)

We shall struggle for life. Priroda 51 no.9:30-31 S '62.  
(MIRA 15:9)

(Disarmament—Congresses)

DUBININ, Aleksandr Dmitriyevich; DEKHTYAR, I.Ya., doktor fiziko-  
matem. nauk, prof., retsenzent; PONYRKO, N.F., doktor fis.-  
matem. nauk, prof., red.; SINGOYEVSKIY, K.V., red.;  
GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Theory of the energy friction and wear of machine parts]  
Energetika trenia i iznosa detalei mashin. Moskva, Mashgis,  
1963. 135 p. (MIRA 16:5)  
(Friction) (Mechanical wear)

PIVOVAROV, Lev Aleksandrovich; CHUDNOVSKIY, S.V., inzh., retsenzent;  
SINGOYEVSKIY, K.V., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. !  
red.

[Safety measures for the cold working of metals] Tekhnika bez-  
opasnosti pri kholodnoi obrabotke metallov. Moskva, Mashgiz,  
1963. 139 p. (MIRA 16:7)

(Metalwork--Safety measures)  
(Metals--Cold working)